

S/N: 10/648,485

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Docket No.: AIA-100-C

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/648,485  
Continuation of 09/979,712

Confirmation No.: 4125

Applicant: Satoshi Amano, et al.

Art Unit: 1614

Filed: August 27, 2003

Examiner: TO BE ASSIGNED

Docket No: AIA-100-C

Customer No: 28892

For: Agent Promoting the Formation of Skin Basement Membrane,  
Agents Promoting the Formation of Artificial Skin and Process  
for Producing Artificial Skin

## PTO FORM 1449 SUBMISSION

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T**
RG	EP 0 852 144 A2	Trustees of Tufts College	July 8, 1998	
	EP 0 852 144 A3	Trustees of Tufts College	May 26, 1999	
	JP 11-079970	Shiseido Co., Ltd.	March 23, 1999	
	JP 11-349436 (XP-002270191)	Noevir KK	Dec. 21, 1999	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiners Initials*	Include Author (CAPITAL LETTERS), title of article, book, magazine, etc. date, page(s), volume-issue number(s), publisher, city and/or country where published	T**
RG	PILCHER, B.K. et al., "Collagenase-1 and collagen in epidermal repair", Archives of Dermatological Research, July 1998, pages S37-S46, vol. 290, no. 6 suppl., USA.	
RG	SIDHU, G.S. et al., "Curcumin enhances wound healing in streptozotocin induced diabetic rats and genetically diabetic mice", Wound Repair and Regeneration, September 1999, pages 362-374, vol. 7, no. 5, USA.	
RG	AMANO, S. et al., "MMP inhibitors markedly enhance basement membrane formation in skin-equivalent model", Journal of Investigative Dermatology, April 2000, page 882, vol. 114, no.4, Chicago, USA.	

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## U.S. PATENT DOCUMENTS

Examiner Initials*	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
RG	5,654,135	Estelle Tinois, et al.	08-05-1997
RG	5,807,555	Frederic Bonet, et al.	09-15-1998
RG	6,093,398	Peng Tee Khaw, et al.	07-25-2000
RG	6,146,664	Mukhtar Siddiqui	11-14-2000
RG	2002/0010162 A1	Raul Fleischmajer	01-24-2002

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Examiner Initials*	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T**
RG	JP 62-270162	NTT Advanced Technology Corp	11-24-1987	
RG	WO 89/05137	Martin Kludas	06-15-1989	
RG	WO 90/05755	Collagen Corporation	05-31-1990	
RG	WO 95/24921	Inst. of Ophthalmology	09-21-1995	
RG	JP 8-67621 (Eng Lang Abstract)	Advanced Sukin Res Kenkyosho:KK	03-12-1996	
RG	JP 8-196618 (Eng Lang Abstract)	Terumo Corp.	08-06-1996	

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<i>Re</i>	WO 97/25969	The University of Michigan	07-24-1997	
	WO 99/03979	Smith & Nephew PLC	01-28-1999	
	JP 11-79970 (Eng Lang Abstract)	Shiseido Co., Ltd.	03-23-1999	
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	JP 11-315008 (Eng Lang Abstract)	Shiseido Co., Ltd.	11-16-1999	
	JP 11-322577 (Eng Lang Abstract)	L'Oreal SA	11-24-1999	
<i>✓</i>	JP 11-343226 (Eng Lang Abstract)	Shiseido Co., Ltd.	12-14-1999	

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiners Initials*	Include Author (CAPITAL LETTERS), title of article, book, magazine, etc. date, page(s), volume-issue number(s), publisher, city and/or country where published	T**
<i>Re</i>	LAVKER, ROBERT M., "Structural Alterations in Exposed and Unexposed Aged Skin," <u>The Journal of Investigative Dermatology</u> , July 1979, pp. 59 - 68, Vol. 73, No. 1	
	MOLONEY, STEPHEN J. et al., "The Effect of Systemic Cyclosporin A on a Hairless Mouse Model of Photoaging," <u>Photochemistry and Photobiology</u> , 1992, Vol. 56, No. 4., Great Britain: Pergamon Press, Ltd.	
	KOIVUKANGAS, V. et al., "UV Irradiation Induces the Expression of Gelatinases in Human Skin <i>In vivo</i> ," <u>Acta Derm Venereol</u> , 1994, pp. 279 - 282, Vol. 74, Scandinavian University Press	
	SHINJIRO ODAKE, et al., "Inhibition of Matrix Metalloproteinases by Peptidyl Hydroxamic Acids," <u>Biochemical and Biophysical Research Communications</u> , March 1994, pp. 1442-6, Vol 199, No. 3, Academic Press, Inc.	
	FISHER, GARY J. et al., "Molecular basis of sun-induced premature skin aging and retinoid antagonism," <u>Nature</u> , January 25, 1996, pp. 335 - 339, Vol 379	
<i>✓</i>	SCHARFFETTER-KOCHANEK, KARIN, "Photoaging of the Connective Tissue of Skin: Its Prevention and Therapy," from <u>Antioxidants in Disease Mechanism and Therapy</u> , edited by Helmut Sies, <u>Advances in Pharmacology</u> , 1997, pp. 639 - 655, Vol. 38, San Diego, CA: Academic Press	

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<i>RC</i>	TANAKA, SHINJI et al., "Effects of Lysophospholipids on Hyaluronic Acid Synthesis in the Skin. I. Effects of Lysophosphatidylcholine on Hyaluronic Acid Synthesis in Cultured Dermal Fibroblasts," <u>Journal of Japan Society of Fats and Oils</u> , 1997, pp. 13 - 19, Vol. 46, No. 9 (With English Language Abstract)	
<i>RC</i>	LAWRENCE J. MacPHERSON, et al., "Discovery of CGS 27023A, a Non-Peptidic, Potent and Orally Active Stromelysin Inhibitor That Blocks Cartilage Degradation in Rabbits," <u>J. of Med. Chem.</u> , August 1997, pp. 2525-32, Vol. 40, No. 16, The American Chemical Society	
<i>RC</i>	MISH, F.C., ed., <u>Merriam-Webster's Collegiate Dictionary</u> , 1993, Merriam-Webster, Incorporated, Tenth Edition, page 1205.	

Examiner Signature	<i>R Giromini</i>	Date Considered	<i>4/20/05</i>
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\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*\*Applicant is to place a check mark here if English language translation is attached